

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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(FOR KEY SEE REVERSE)

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The tubes [redacted] from OSW, Berlin, had Soviet designations, and [redacted] approximately 50 per cent were returned because of faults.

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3. [redacted] Leningrad [redacted] in the TV institution where the Q series (first of any lot) was constructed. These were magnetrons, in addition to iconoscopes. Walter HASS, department engineer, chief of the High Vacuum Department in Adlershof, is presently working on iconoscope development and research at Adlershof, because the East Zone does not have this tube yet. He was placed in charge of this small department of approximately ten engineers.

[redacted] In the middle of 1951 and summer of 1952, Dr. ECKERT (from OSW) joined Adlershof as a consultant. He is a member of the Academy of Science, Berlin. He is a specialist on photo-cells containing secondary emission multipliers. He developed his own type of scanning device while at OSW, which was purchased by Adlershof. At the Heinrich Hertz Institute, he worked with Prof. HACHENBERG, a consultant in the same field. This photo-cell is being developed further by these two. Adlershof received its scanning tubes from OSW. In 1951-52 OSW depended on Weisswasser, near Gerlitz, for the glass. When personnel left the Weisswasser plant for the West Zone, OSW had to look elsewhere for this glass. ARTMANN of OSW was the glass blower who made the intricate portions of the glass tube for Dr. ECKERT. [redacted] compared the iconoscope developed by Dr. ECKERT with the iconoscope made by Fernseh A.G., Darmstadt. [redacted] it very primitive and not as good as the one made by Dipl. Ing. HASS. It should take another two years for the East Zone Adlershof to develop an iconoscope as good as that of Fernseh A.G., Darmstadt. This is mainly because of inexperience on the part of Adlershof. [redacted] RFT, Erfurt, is working on amplifier tubes today.

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6.

25X1 [redacted] copied the USA type without an iconoscope camera, using a cathode ray tube. [See diagram, page 4.] This was used in Adlershof as late as December 1951, because the iconoscope for the camera was not yet developed. Flying spot scanner techniques were not used in the USSR nor in Adlershof today, but [redacted] they were used in 1937 in Germany.

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25X1 7. [redacted]

25X1 [redacted]

25X1 [redacted]

25X1 [redacted] Moscow beamed 40 km to Fryazino [redacted]

25X1 [redacted] OSW and called the

25X1 "butterfly type" antenna.

25X1 er gain. [redacted]

25X1 8. [redacted]

25X1 [redacted] This equipment came from Sachsenwerke

25X1 in Radeberg near Dresden, Germany. This plant is presently also

25X1 manufacturing the "Leningrad" TV receiver for the USSR. [redacted]

25X1 [redacted]

25X1 9. [redacted]

25X1 For glide bombs, the beginning (in 1945) was at Fernseh GmbH

25X1 Tannwald (Iser mountain), Sudetenland, Germany. Prior experiments

25X1 (1943-4) of the glide bombs were held at Peenemuende, Germany, under

25X1 the German Post Office. Approximately 200 cameras for these glide

25X1 bombs were removed and hidden, mainly in West Germany (1945). In

25X1 1951, the Secret Department of the TV Institute in Leningrad con-

25X1 tinued to work on the German TV camera, under the chief, Zakharov (fnu).

25X1 In the opinion of us Germans, the Soviets did not further develop

25X1 this TV camera, because they could not ask us questions as we would

25X1 then know that they were working on it. In East Germany [redacted]

25X1 perhaps Germans and Soviets are working on TV for military purposes,

25X1 but this is merely a personal opinion.

25X1 10. [redacted]

25X1 [redacted] the Soviets may have given TV a high priority, but this is pure

25X1 conjecture [redacted]

25X1 [redacted] the USSR was developing telecasting for

25X1 Moscow, Leningrad, Kiev, Sverdlovsk. Perhaps Adlershof centrum.

25X1 will be the fifth station [redacted]

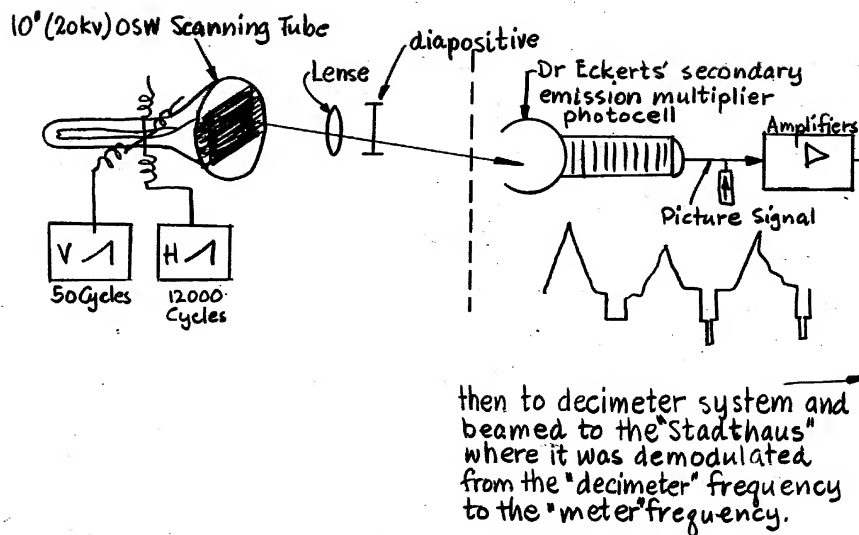
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25X1 11. [redacted]

S E C R E T

VIDEO FILM SCANNING ARRANGEMENT

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